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ABSTRACT

5           A method and equipment for replacing anodes in an electrolysis cell in which a  
crane with an anode gripper is used to lift out used anodes and to insert new anodes.  
The new anode is inserted at a height in accordance with a calculated height based  
on the height of the anode removed, the height of the anode removed and the height  
of the new anode being measured against a common reference level. Laser-based  
10   measuring equipment is arranged between a point on the crane, which is stationary  
in terms of height during the operation, and a point on the anode gripper, which  
moves together with the anode, and measures the heights stated. The measured  
values are processed by a PLC-based system, which determines a more precise  
insertion height of the new anode in accordance with a specific algorithm.

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